

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all previous listings, and versions, of claims in the application.

Listing of Claims:

1. (Currently Amended) An implantable fluid management system comprising:
an implantable pump having an inlet, an outlet, and an electromechanical motor and an integrated controller ~~a circumferentially-coupled magnetic drive system~~, the implantable pump configured to be implanted subcutaneously in a peritoneal cavity ~~so that a portion of the magnetic drive system partially protrudes from the peritoneal cavity;~~
a first tube coupled between the peritoneal cavity and the inlet;
a first pressure sensor disposed in fluid communication with the first tube and operatively coupled to the controller;
a second tube coupled between the outlet and a bladder; and
a second pressure sensor disposed in fluid communication with the second tube and operatively coupled to the controller,
wherein the integrated controller is programmed to activate the electromechanical motor to pump fluid from the peritoneal cavity to the bladder responsive to the first pressure sensor detecting a pressure in the peritoneal cavity exceeding a first predetermined threshold and the second sensor detecting a pressure in the bladder lower than a second predetermined threshold
~~external control module configured to be periodically coupled to the implantable pump to transfer energy to the implantable pump, the external control module including a recess that accepts the protruding portion of the magnetic drive system to permit the external control module to circumferentially engage and magnetically couple to the protruding portion of the magnetic drive system.~~
2. (Canceled)
3. (Currently Amended) The system of claim 1, wherein the implantable pump further comprises an ~~is configured to activate when pressure in the peritoneal cavity exceeds a~~

predetermined level; external control module configured to be periodically coupled to the implantable pump to transfer energy to the implantable pump, the external control module including a recess that accepts a protruding portion of a magnetic drive system portion of the electromechanical pump to permit the external control module to circumferentially engage and magnetically couple to the protruding portion of the magnetic drive portion.

4.-32. (Canceled)

33. (Currently Amended) The system of claim 1, wherein the implantable pump further comprises a housing comprises having anchors that oppose rotational forces generated by the implantable pump, and wherein the anchors are selected from the group consisting of barbed insertion pins, a screw threading defined on an outside surface of the implantable pump, one or more pins designed to be inserted into the abdominal wall, and combinations thereof.

34. (Canceled)

35. (Currently Amended) The system of claim 33 ~~[[1]]~~, wherein the housing comprises a material promoting fibrotic ingrowth into the housing.

36. (Currently Amended) The system of claim 33 ~~[[1]]~~, wherein one or more anti-infective coatings are provided on the housing.

37. (Canceled)

38. (Currently Amended) The system of claim 1, further comprising:
a first pressure sensor is disposed at an end of the first tube; and
a second pressure sensor is disposed at an end of the second tube;
~~wherein the first sensor is a pressure sensor or a chemical sensor, and
wherein the second sensor is a pressure sensor or a chemical sensor.~~

39. (Currently Amended) The system of claim 1, further comprising a housing made of a biocompatible material, ~~the pump being disposed in the housing.~~

40. (Currently Amended) The system of claim 1, wherein the implantable pump and integrated controller are ~~[[is]]~~ configured to be remotely activated.

41. (Canceled).

42. (Currently Amended) The system of claim 3 ~~[[1]]~~, wherein the external control module comprises a driveshaft and a magnet holding arm, the driveshaft transferring power to the magnet holding arm.

43. (Currently Amended) The system of claim 3 ~~[[1]]~~, wherein the external control module transfers the energy to the implantable pump.

44. (Currently Amended) The system of claim 1, wherein the implantable pump further comprises a battery.